where locally in the central portion it was the driest June of record. Deficiencies were large in portions of the Lake region also, and locally in near-by areas. In the far West precipitation was light as usual, though locally in southern Washington, northern Oregon, and near-by portions of Idaho there were some heavy falls.

SNOWFALL

Traces of snow were reported at a few northern points and locally as far south as Kansas. In western Montana and northern Wyoming measurable amounts fell at a few exposed points. In the high Sierra of California there were local falls ranging up to 20 inches. Elsewhere in

the mountain districts the falls were usually no more than traces.

RELATIVE HUMIDITY

Despite the general low temperatures, the percentages of relative humidity were distinctly less than normal in the Great Lakes region and to a less extent to the westward as far as the Dakotas, also over the Atlantic Coast States from Virginia to New England.

In other portions of the country the percentages were mainly above normal, and distinctly so in the Rocky Mountain region and over most of the Southeastern States except Florida, where the percentages were generally less than normal.

SEVERE LOCAL STORMS, JUNE, 1927

[The table herewith contains such data as have been received concerning severe local storms that occurred during the month. A more complete statement will appear in the Annua Report of the Chief of Bureau]

						ort of the Chief of Bi	reauj		
Place	Date	Time	Width of path, yards 1	Loss of life	Value of property destroyed	Character of storm	Remarks	Authority	4
Westville, Okla., and vicin-	1	2 p. m	4 mi		\$360,000	Heavy hail	Damage chiefly to crops; property damage considerable.	Official, U. S. Bureau.	Weather
White City, Kans	1	2:45–3 p. m.	3,520			do	Wheat flattened; roofs pierced; poultry and small animals killed; path 16 miles long.	Do.	
Ashland County, Wis Payne County, Okla. (south central).	1	4 p. m 4:30 and 6 p. m.	3 mi		28,000	Two hailstorms	Considerable minor damage reported Crop losses heavy; minor property damage; path about 8 miles.	Do. Do.	
Stroud, Okla., and vicinity.	1	5 p. m	1,760	 - 	200, 000	Wind, hail, and rain.	A number of houses demolished, many damaged; heavy losses in oil fields; plate-glass windows broken; trees torn; 3 persons injured.	Do. Times Record (Fo	rt Smith
Avery and Kendrick, Okla. (vicinity of).	1	5-5:30 p. m.	10 mi	\ 		Heavy hail	Severe crop injury; other minor damage	Official, U. S. Bureau.	Weather
Between Knox City and Munday, Tex. Limon, Colo	1	5–8 p. m	6 mi		220,000 350,000	do	Thousands of acres of crops ruined, necessitating replanting; buildings damaged. All damage reported was to crops	Do.	
Tillman County, Okia.	1	6 p. m 7–8 p. m	15 mi 4 mi			do	Extensive crop damage over path 10 miles long.	Do. Do.	
(western). Grady County, Okla. (northern).	1	8 p. m	ì	1	1	do	15 miles long.	Da.	5 · 3
Norman, Okla., and vicin- ity.] 1 	9 p. m	1		1	do	Damage principally to crops over path 10 miles long.	Do.	
Ketchings Mills and Mo- netta, S. C.	1	P. m	1	ì		Hail	Crops injured	Do.	
netta, S. C. Hamilton, Kearny, and Finney Counties, Kans. Barton, Pawnee, and Staf-	2 2	12.30 a. m.	3 mi 30 mi			Heavy haildo	long. Thousands of acres of wheat destroyed: minor	Do. Do.	
ford Counties, Kans. Ross County, Ohio (east-	2	1-3 a. m		1	1	do	damage to buildings. Storm very destructive to crops and gardens	Do.	
ern). Dodge City, Kans	2	1.40 a. m	400		200,000	Violent wind	25 buildings unroofed, 50 others damaged	Do.	
Ford County, Kans Miles to Venita, Okla	2 2	2 a. m 7 a. m	7 mi 4 mi			Heavy haildo	Heavy crop and property damage over path 14	Do.	
Tecumseh, Okla. (near) Denver, Colo	2 2	2 p. m 5:26 p. m	5-7 mi		500, 000	do	Severe damage to greenhouses, skylights, and	Do. Do.	
Branchville, S. C. (near) Cheyenne County, Kans	2	5:30 p. m.		. 2		Thunderstorm	truck gardens; 4 persons injured. 4 persons injured. Wheat badly damaged.	Do.	
Rockport, Ind., and vicin-	2 2	7 p. m 8-9 p. m	3,520			Heavy hail	Heavy crop loss: some damage to windows.	Do. Evansville Journa	l (Ind.).
ity. Dundy County, Nebr	2	9:30 p. m	3 mi			Heavy hail	T00/8	Official, U. S. Bureau.	Weathe
Washita County, Okla. (southern).	2	9–10 p. m.	3 mi	·	100, 000	do	Severe damage to crops; poultry, rabbits and	Do.	
Holt County, Nebr. (east-	2	11 p. m	3, 520		-	do	Rye, alfalfa, and gardens injured over nath 50	Do.	
Canadian County, Okla. (southeastern).	2		3 mi		-	do	miles long. Crops a total loss in center of storm; other minor	Do.	
Gotebo, Okla. (north of) Seminole, Okla. (near)	2 2	P. m	3∕2−10 mi		5,000	do [do	property damage. Severe damage, estimate not obtainable Some damage in oil fields	Do.	
Cheyenne, Rawlins and Decatur Counties, Kans.	2-3	10: 30 p.m. 1 a. m.	4-20 mi		500,000	do	Damage chiefly to wheat and barley over path 100 miles long.	Do.	
Rooks and Osborne Coun- ties, Kans.	3	4-5 a. m	i-10 mi		į.	do	About 57 square miles devastated	Do.	
Boone and Callaway Counties, Mo.	3	5-6 s. m		1 -	1	wind.	Damage confined to trees, outhouses, telephone and telegraph wires.	Do.	100
Cloud County, Kans Hannibal, Mo., and vi- dnity.	3 3	5-6 a. m 1: 22 p. m	3 mi		240, 000 100, 000	Wind and hail	Extensive crop damage over large area	Do. Do.	
Saline County, Kans	3	3:30-4 p.	3–4 mi		50, 000	Heavy hail		Do.	
Atchison and Doniphan Counties, Kans.	3	4: 30 p m.	3 mi	ļ	25, 000	do	Growing crops damaged.	Do.	
Herington, Kans	3	4: 30 p. m.	3 mi	·	110,000	do	10,000 acres of wheat ruined; heavy damage to buildings.	Do.	
Topeka, Kans. (near)	3	4.40 p. m	33		400	Small tornado	Damage confined to small buildings and trees	Do.	*•
Parrytown, Tex. (near)	3	6 p. m			-	Heavy hail	over a path 5½ miles long. Storm reported very destructive to crops and buildings.	Do.	
Auburn, Kans. Fulton, La Salle, Macoupin, Marshall, Peoria, Pike, Sangamon, Schuyler, and Tazewell Counties, Ill.	3	6.30 p. m P. m	90		1,000	Double tornado Wind, rain, and hail.	2 parallel paths less than 2 miles long	Do. Do.	

^{1&}quot;Mi." signifies miles instead of yards.

 $(x,x) \hat{Y}(x)$

MONTHLY WEATHER REVIEW

Severe local storms, June, 1927-Continued

Place	Date	Time	Width of path, yards 1	Loss of life	Value of property destroyed	Character of storm	Remarks	A utho r ity
Cushing, Okla. (4 miles west of).	3				350, 000	Wind	Severe crop loss and property damage	Official, U. S. Weather Bureau.
Paducah, Ky., and vicinity.	3				30, 000	Wind and hail	Steel work of 6-story building wrecked; numerous barns and other buildings unroofed.	Do.
Wray, Colo	3 4	1-2 a. m	- -		100, 000	Heavy hail Tornadic wind	About 50 per cent of crops destroyed	Do.
Ind. (near). Grove and Lane Counties,	7			1 1	100,000		i	Do. Do.
Kana.	7	F. III	3 111			Heavy han	Fields in path left bare; trees stripped; live- stock and poultry killed; hall in drifts 8 to 15 feet deep.	100,
Peru, Ind	4	P m	880		8, 000 50, 000	Wind	Buildings damaged	Do. Do.
San Jon, N. Mex	5	P. m 5 p. m	ŀ		10, 000	Hail	Damage by hail severe; minor wind damage Poultry killed; homes and farm buildings con- siderably damaged.	Do.
Grover, Colo. (near) Mobile, Ala. (9 miles north	5 5		3 mi		10, 000 1, 500	do	Character of damage not reported	Do. Do.
of). Wellborn, Fla Ville Platte, La. (2 miles	6	2.30 p. m	3–6 mi		11,000	Wind and hail	Damage principally to crops Small church blown down; corn and cotton in-	Do. Do.
south of).	6	1	1		ì	ł	lured.	Do.
Kilgore, Nebr. (near)	7		1			do	Crops considerably damaged over path 7 miles long.	Do.
Lake City, Fla., and vi- cinity.	7						Young crops beaten; corn and tobacco damaged	Do.
Portland, Oreg	7	6 p. m		-		Wind and rain	Damage chiefly by excessive rains flooding base- ments, sewers and homes; traffic menaced by	Official, U. S. Weather Bu- reau. The Oregonian
Scott County, Iowa	7	7 p. m			30, 000	Hail	washing of roads. Crops damaged	(Portland, Oreg.). Official, U. S. Weather Bu- reau.
Fresno, Calif	7		1	ìI		Thundersquall	Plate-glass windows broken; shade trees blown down; much fruit knocked off.	Do.
Boone, Floyd, Franklin, Greene, Hancock, Har- din, Jasper, Marshall, and Story Counties, Iowa.	. 8	4-7 p. m			109,000	Hail, wind, and floods.	Severe crop injury; much damage to buildings and roads.	Dø.
and Story Counties, Iowa. Polk, Sawyer, and Wash- burn Counties, Wis.	9	8-9 p. m			78, 000	Severe squall; probably tor- nado.	Silos, small farm buildings and timber damaged; 3 persons injured.	Do.
Houghton, Mich., and vi- cinity.	9			1		Electrical	dermined; farm house burned.	Do.
Murray City, Ohio Fort Stockton, Tex. (near)	10 11	P. m 4-5 p. m 7:45 p. m	3 mi		100, 000 22, 500	Cloudburst	Property of all kinds destroyed Crops badly hurt; roofs and windows pierced	Do. Do.
Muscotah, Kans Nashville, Tenn	11 11	7:45 p. m	880		1,000 50,000	Small tornado	Trees and outbuildings damaged Warehouse and contents destroyed	Do. Do.
Chattanooga, Tenn., and	12		l .	; 1	50,000		About 500 telephones out of use many trees	Do.
Wray, Colo Cedar Edge, Colo Chester, S. C	12 14	2 p. m			10,000 1,500	Heavy haildo	and poles leveled. About half of crops destroyed Damage entirely to crops over narrow path	Do. Do.
	14					and wind.	Some buildings damaged	Do.
Whitman County, Wash Rapid City, S. Dak	16 17	12-3 p. m.				Hail, wind and	Growing crops considerably injured	Do. Do.
						rain.	wrecked; gardens in city ruined.	
Memphis, Tenn. (near)	17	6-7 p. m	140			Probably tornado.	One barn demolished; trees and telephone lines damaged; truck gardens injured.	Do. Press Scimitar (Memphis,
Alliance, Nebr	18	4 p. m	3 mi		50,000	Hail	Much injury to crops; roofs damaged; path 7	Tenn.). Official, U. S. Weather
Labette and Neosho Coun- ties, Kans.	19	Midnight-	do		50,000	Violent wind	miles long. Small buildings, trees, telephone and telegraph lines damaged.	Bureau. Do.
Joplin, Mo	19	4 a. m. A. m					Two homes wrecked and many buildings damaged; poles and trees blown down.	Do.
Wright County, Kans	19		l	ı .		Heavy hail	Damage chiefly to wheat, loss ranged up to 100	Do.
Norfolk, Nebr Buffalo and Dawson Coun-	20 20	3:30 p. m 4-5 p. m	3 4–9 mi		100	Tornado Heavy hail	per cent. Greenhouse damaged Vegitation destroyed at various points over	Do. Do.
ties, Nebr. Rooks County, Kans	20		1			l	Dath 70 miles long.	Do.
Seward County, Kans	20 21		1			Wind	ings damaged.	Do.
Sidney, Ohio (north of) Chattanooga, Tenn	21	о р. ш		1		Thunderstorm	overhead wires.	Do. Do.
Lubbock, Tex. (vicinity of)	22	7:30-8:30 a		I		Heavy hail	and telegraph service impaired.	Do.
Stanley, Wis. (near)	24	m	i				poultry killed. Damage severe, character not reported	Do.
Buffalo, N. Y	25						Damage by flooding and lightning; 6 persons injured.	Do.
Lackawanna and Wyom- ing Counties, Pa.	26	3:30 p. m		1		do	Several buildings partially destroyed; considerable damage by rain.	Do.
Aladdin, Wyo. (near)	27 27					Wind and hail Small tornado	Roofs, windows, crops and timber damaged or destroyed. Several buildings wrecked; 4 persons injured	Do.
Adon, WyoAlliance, Nebr	28	5:45 p. m 4 p. m				Heavy hail	Wheat beaten over large area; light globes broken; windows shattered; roofs punctured.	Do. Do.
Crown Point, N. Mex Edna, Tex	28 28	4-5 p. m	4 mi 3, 520		6, 000	Wind and haildo	Roof damaged; several small buildings razed Crops damaged about 10 per cent; trees and windows broken; 6 oil derricks wrecked.	Do. Do.
Valentine, Nebr	29			i		Two thunder-	windows broken; 6 oil derricks wrecked. Loose objects blown around; awnings and trees	Do.
,	30		· · · · · · · · · · · · · · · · · · ·			storms.	torn; other minor property damage.	